circa by UC	D: 11/15/2	2021 2:10:	50 PM								Page 1 of	
District I				St	ata of	NM OIL CONSERVATION						
625 N. French E District II	Dr., Hobbs, N	M 88240		Energy Mi	nerals	and Natura	ICO ARTES	IA DISTRI	ICT	D,	Form C-14	
11 S. First St., A	Artesia, NM 8	8210		Lifergy with	nerais :	and Natura	DEC	1820	17	K	evised August 8, 201	
<u>District III</u> 000 Rio Brazos	Road, Aztec,	NM 87410		Oil C	Conser	vation Div	vision	Submi	t I Copy	to appropria	te District Office in h 19 15 29 NMAC	
District IV 220 S. St. Franc	is Dr. Santa I	Fe NM 87504		1220	South	St. Franc	is Dr. RE	CEIVER	)			
220 5. 51. 11anc.		1 C, INIVI 8750.	,	Sa	anta Fe	e, NM 875	05					
			Rele	ease Notific	catior	and Co	orrective A	ction				
NAB1731	40553	334				<b>OPERA</b>	ГOR	$\triangleright$	Initia	al Report	Final Repo	
Name of Cor	mpany W	VPX Energ	y Inc/RK	I delled 8	9	Contact	Karolina Blar	ney				
Address	5315 Bue	na Vista Di	r			Telephone N	No. 970 589 074	3				
Facility Nam	ne: RDU 34	well pad		······································		Facility Typ	e: Well Pad					
Surface Own	er: Federa	ıl		Mineral C	)wner: ]	Federal	·····		API No	. 30- 015-4	1578	
				LOCA	ATIO	N OF REI	LEASE					
Unit Letter	Section	Township	Range	Feet from the	North/	South Line	Feet from the	East/We	st Line	County		
D	22	26S	30E	600		FNL	435	FW	L	Eddy		
		<u> </u>	La	titude: 32 0336	4814N	Longitud	e103 876309	39W		·		
			1.14	NAT	URE	OF REL	EASE	5711				
Type of Relea	se. Produced	d Water and	Oil			Volume of	Release: 5 Bbls		Volum	e Recovered:	2 Bbls	
Source of Rele	ease					Date and H	Iour of Occurrence	e	Date ar	nd Hour of D	iscovery	
Was Immediat	te Notice Gi	ven?				If YES. To	Whom?		12/8/20	<u>)17 - 12:00 n</u>		
			Yes [	] No 🛛 Not R	equired	MOCD Crystal Weaver & Michael Bratcher, BLM Shelly Tucker						
-							Date and Hour: 12/8/17-14:44 hrs MT					
By Whom? Ka	arolina Blan	ley				Date and H	lour: 12/8/17-14	:44 hrs M'	I			
By Whom? Ka Was a Waterco	arolina Blan ourse Reach	ned?		2 N.		Date and H If YES, Vo	lour: 12/8/17–14 plume Impacting t	:44 hrs M'	ourse.			
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Operator/Responsible Party,

The OCD has received the form C-141 you provided on **12/18/17** regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number <u>ARP.4529</u> has been assigned. **Please refer to this case number in all future correspondence.** 

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete <u>division-approved corrective action</u> for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District II office in Artesia on or before 1/18/18. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

• Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C<sub>6</sub> thru C<sub>36</sub>), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.

• Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C<sub>6</sub> thru C<sub>36</sub>), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.

- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.

• Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

•Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

• If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

• Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold OCD Environmental Bureau Chief 1220 South St. Francis Drive Santa Fe, New Mexico 87505 505-476-3465 jim.griswold@state.nm.us

#### Weaver, Crystal, EMNRD

From:	Blaney, Karolina <karolina.blaney@wpxenergy.com></karolina.blaney@wpxenergy.com>
Sent:	Monday, December 18, 2017 12:54 PM
То:	Weaver, Crystal, EMNRD; 'Tucker, Shelly'
Cc:	Bratcher, Mike, EMNRD; Raley, Jim
Subject:	WPX/RKI RDU 34 - C-141
Attachments:	RDU 34 - C-141.doc

Good afternoon, Attached is the C-141 report for the RDU 34 spill. Please let me know if you have any questions or concerns. Thank you and have a great afternoon,

#### Karolina Blaney

Environmental Specialist WPX Energy Office: (575) 885-7514 Cell: (970) 589-0743 <u>karolina.blaney@wpxenergy.com</u>

From: Blaney, Karolina Sent: Friday, December 08, 2017 2:44 PM To: 'Weaver, Crystal, EMNRD' <Crystal.Weaver@state.nm.us>; 'Tucker, Shelly' <stucker@blm.gov> Cc: 'Bratcher, Mike, EMNRD' <mike.bratcher@state.nm.us>; Raley, Jim <james.raley@wpxenergy.com> Subject: WPX/RKI RDU 34 - initial spill notification

Good afternoon,

WPX discovered a spill this afternoon, 12/8/17, at 12:00 pm at the RDU 34 well pad. API # 30-015-41578, D-22-26S-30E. The spill was caused by a failure of a buried flowline. Approximately 5 bbls of produced fluids were spilled on location. None of the spilled fluids has left the pad. I will submit the C-141 report in the next 15 days but please do not hesitate to contact me if you have any questions. Thank you and have a great weekend,

#### Karolina Blaney

Environmental Specialist WPX Energy Office: (575) 885-7514 Cell: (970) 589-0743 karolina.blaney@wpxenergy.com

#### Weaver, Crystal, EMNRD

From:	Blaney, Karolina <karolina.blaney@wpxenergy.com></karolina.blaney@wpxenergy.com>
Sent:	Friday, December 8, 2017 2:45 PM
То:	Weaver, Crystal, EMNRD; 'Tucker, Shelly'
Cc:	Bratcher, Mike, EMNRD; Raley, Jim
Subject:	WPX/RKI RDU 34 - initial spill notification

Good afternoon,

WPX discovered a spill this afternoon, 12/8/17, at 12:00 pm at the RDU 34 well pad. API # 30-015-41578, D-22-26S-30E. The spill was caused by a failure of a buried flowline. Approximately 5 bbls of produced fluids were spilled on location. None of the spilled fluids has left the pad. I will submit the C-141 report in the next 15 days but please do not hesitate to contact me if you have any questions.

Thank you and have a great weekend,

#### Karolina Blaney

Environmental Specialist WPX Energy Office: (575) 885-7514 Cell: (970) 589-0743 karolina.blaney@wpxenergy.com

Jim Raley

Oil Conservation Division

Incident ID	NAB1736055339
District RP	
Facility ID	
Application ID	

Page 6 of 23

## Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>&gt; 100 (ft bgs)</u>
Did this release impact groundwater or surface water?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🛛 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🛛 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🛛 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🛛 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🛛 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🛛 No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	🗌 Yes 🛛 No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

#### Characterization Report Checklist: Each of the following items must be included in the report.

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. Field data
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within <sup>1</sup>/<sub>2</sub>-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- $\mathbf{X}$ Topographic/Aerial maps
- Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

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OCD Only Received by:			Date:				

Received by OCD: 11/15/2021 2:10:50 PM Form C-141 State of New Mexico

Oil Conservation Division

Remediation Plan Checklist: Each of the following items must be included in the plan.

	Page 8 of 2	23
Incident ID	NAB1736055339	
District RP		
Facility ID		

Application ID

## **Remediation Plan**

Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation. Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction. Extents of contamination must be fully delineated. Contamination does not cause an imminent risk to human health, the environment, or groundwater. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. Printed Name: \_\_\_\_\_\_ Jim Raley Title: Environmental Professional fin Rold 11/15/2021 Signature: Date: Telephone: 575-689-7597 email: \_\_jim.raley@dvn.com **OCD Only** Received by: Date: Approved Approved with Attached Conditions of Approval Denied Deferral Approved Signature: Date:

November 11, 2021

District II New Mexico Oil Conservation Division 811 South First Street Artesia, New Mexico 88210

RE: Remediation Work Plan Addendum Ross Draw Unit #034 Incident Numbers nAPP2107554265, nAB1736055339 (2RP-4529) and nAB1528240224 (2RP-3322) Eddy County, New Mexico

To Whom it May Concern:

WSP USA Inc. (WSP), on behalf of WPX Energy Permian, LLC. (WPX) is pleased to present the following Addendum to the original Remediation Work Plan Request, submitted to the New Mexico Oil Conservation Division (NMOCD) on May 21, 2021. This Addendum provides clarification for the proposed sampling plan and the depth to water determination at the Ross Draw Unit #034 (Site) located in Unit D, Section 22 Township 26 South, Range 30 East, Eddy County, New Mexico (Figure 1). The NMOCD denied the proposed sampling plan in the original Remediation Work Plan on August 19, 2021 based on concern that the depth to water determination at the Site was inadequate. Based on the additional clarification below, WPX is submitting this Addendum Remediation Work Plan Request to further clarify the proposed remediation actions and estimation of groundwater at the Site is greater than 101 feet below ground surface (bgs), no further than ½ mile from the Site, and has measurement data that is less than 25 years old. Figures and Attachments may be referenced from the original Remediation Work Plan Request.

#### **RELEASE BACKGROUND**

#### nAPP2107554265

On March 7, 2021, the failure of a polish rod packing associated with the well head resulted in the release of approximately 8 barrels (bbls) of crude oil and 1 bbl of produced water to the well pad surface and adjacent pasture. A vacuum truck was dispatched to the Site and recovered approximately 5 bbls of oil. Devon reported the release to NMOCD on a Release Notification and Corrective Action Form C-141 (Form C-141) on April 6, 2021 and was assigned Incident Number nAPP2107554265.

#### NAB1736055339 (2RP-4529)

On December 8, 2017, a buried flowline failed and resulted in the release of approximately 5 bbls of crude oil and produced water onto the well pad surface. A vacuum truck was dispatched to the Site and recovered approximately 2 bbls of crude oil and produced water. Devon reported

the release to the NMOCD on a Form C-141 on December 18, 2017 and was assigned Incident Number NAB1736055339 and Remediation Permit (RP) Number 2RP-4529.

#### NAB1528240224 (2RP-3322)

On October 6, 2015, a natural gas poly line northeast of the location parted and caught fire in the right of way (ROW) that included an additional two gas lines and 5 poly water lines. The poly water lines melted and resulted in the release of approximately 70 bbls of produced water onto the pipeline ROW. A vacuum truck was dispatched to the Site and recovered approximately 55 bbls of produced water. Devon reported the release to the NMOCD on a Form C-141 on October 7, 2015 and was assigned Incident Number NAB1528240224 and RP Number 2RP-3322.

#### SITE CHARACTERIZATION

The Remediation Work Plan detailed site characterization according to Table 1, Closure Criteria for Soils Impacted by a Release, detailed in Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC).

#### **CLOSURE CRITERIA**

Based on the results of the Site Characterization, the following NMOCD Table 1 Closure Criteria (Closure Criteria) apply:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 20,000 mg/kg

The reclamation requirement of 600 mg/kg chloride per NMAC 19.15.29.13.D (1) applies for the top 4 feet of areas that will be reclaimed immediately following remediation, specifically areas off pad within the pasture.

#### NMOCD Denial

NMOCD emailed Mr. Jim Raley with WPX on August 19, 2021 indicating their denial of the May 2021 Remediation Work Plan Request based on the following:

• When nearby wells are used to determine depth to groundwater, the wells should be no further than ½ mile away from the site, and data should be no more than 25 years old, and well construction information should be provided. If evidence of depth to ground water within a ½ mile radius of the site cannot be provided, impacted soils will need to meet Table 1 Closure Criteria for ground water at a depth of 50 feet or less. The Closure Report is denied due to inadequate and unapproved sampling plan.

#### ADDENDUM RESPONSE

As indicated in the original Remediation Work Plan Request, depth to groundwater at the Site is estimated to be greater than 100 feet bgs based on soil boring MW-1, associated with Ross Draw Unit (RDU) #38, that was drilled by Talon LPE on December 8, 2020. The soil boring is located approximately 0.36 miles southeast of the Site (32.030491°, -103.871260°). Using a truck mounted drill rig equipped with hollow stem auger, the soil boring was advanced to a total depth of approximately 105 feet bgs. Groundwater was not observed within the soil boring after at least 72 hours. Following the observation period, the boring was plugged and abandoned. The boring log is included as Attachment 1.

In addition, WPX installed six other borings in December 2020 (RDX 16 #25H (MW-1), RDX 21-43 (MW-1), RDX 17-3 (MW-1), RDX 17-44 (MW-1), RDU 55 (MW-1), and RDU 57 (MW-1)) within a 3mile radius of the Site and depth to water results for all six indicated groundwater was not encountered within 105 feet of the ground surface. Two other water wells, United States Geological Survey (USGS) well number 320125103514701 and New Mexico Office of the State Engineer (OSE) well number C 02165, indicate depth to water was 117 feet bgs and 180 feet bgs, respectively. Regionally, depth to water appears to be greater than 100 feet bgs and therefore the depth to water estimate for RDU #38 appears to be consistent with the regional data, thus a representative water well for estimating depth to water for the Site. Figure 1 depicts the nine water wells described above.

The Closure Criteria for Incident Numbers nAPP2107554265, nAB1736055339 (2RP-4529) and nAB1528240224 (2RP-3322) is reflective of depth to water determination as stipulated by NMOCD, which includes:

Depth to Water Criteria	Response – Water Well RDU #58 (MW-01)				
Well located within ½-mile of the Site	Approximately 0.36 miles from the Site				
Depth to water measurement within the last 25 years	Well drilled and depth to water measured in December				
	2020				
Well Construction Provided	The boring log and well construction information was provided in the original Remediation Work Plan				
	Request and included in Attachment 1 of this Addendum				

#### CONCLUSION

Based on data from the RDU #38 (MW-1) soil boring and its overall correlation with regional depth to water findings, WPX believes the established Closure Criteria should be utilized for delineation and excavation purposes for the three releases included in the Remediation Work Plan Request.

WPX respectfully requests a reconsideration of the May 2021 Remediation Work Plan Request as it pertains to Incident Numbers nAPP2107554265, nAB1736055339 (2RP-4529) and nAB1528240224 (2RP-3322). If approved, WPX will commence with field activities promptly.

If you have any questions or comments, please do not hesitate to contact Mr. Dan Moir at (303) 887-2946.

Sincerely,

WSP USA Inc.

Anna Dyers

Anna Byers Consultant, Geologist

Daniel R. Moir, P.G. Lead Consultant, Geologist

cc: Jim Raley, Devon Bureau of Land Management

Attachments:

Figure 1Site Location MapAttachment 1Referenced Well Records

Received by OCD: 11/15/2021 2:10:50 PM

# FIGURES

**Released to Imaging: 3/21/2023 9:05:35 AM** 



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	<				0.5		Boring/Wel	ll Number:		Location:		
		60	MPL		U E		Data	М	W-1	RDX 16	-25	
	14	50	LU	UTIONS			Date: 12/10/2020			WPX En	erøv	
Drilling Me	ethod:		Sampling Method:			Logged By:			Drilled By:			
A	Air Rotai	y		No	one			J. Liı	nn, PG	Talon L	PE	
Gravel Pac	k Type:		Gravel Pac	k Depth Inte	erval:		Seal Type:		Seal Depth Interval:	Latitude:		
1	0/20 sar	ıd		3 b	ags		N	lone	None	32.0399	004	
Casing Typ	be:	Diameter:		Depth Inter	rval:		Boring Tota	al Depth (ft. BC	is):	Longitude:	7760	
F VC Screen Typ	e:	Z-IIICII Slot:		Diameter:	Depth	Interval:	Well Total	L Depth (ft_BGS	)·	-105.885. Depth to Water (ft. BTOC):	DTW Dat	te:
PVC		0.010-i	nch	2-inch	105-	110 ft		1	10	>110	12/1	6/2020
Depth Interval (ft)	Recovery (ft)	Plasticity	Moisture	Odor	Staining	PID (ppm)	USCS	Sample ID	Litholog	y/Remarks	W Com	Vell pletion
0 5 10 15 20	NM	L	D	N	N	NM	SW	NS	Pale orange to pir sand w	nk tan well graded vith silt	- - -	
25 30 35	NM	L	D	N	Ν	NM	SP	NS	Pale pinky orange sa	poorly graded fine nd	+	
40 45	NM	L	D	N	N	NM	SW	NS	Orange to pale rec with	d well graded sand gravel		
50 55	NM	L	D	Ν	Ν	NM	SP	NS	Pale pinky orange sa	poorly graded fine nd		
60 65 70 75 80 85 90 95 100 105 110	NM	L	D	N	N	NM	SP	NS	Pale pinky orange sand with minor n sand - TD	poorly graded fine nedium and coarse D: 110' bgs	- - - - - - -	

HRI							BORING LOG/MONITORING WELL COMPLETION DIAGRAM					
							Boring/Wel	l Number: M	W-1	Location: RDX Federal Com 21-43		
	TM	ŠŎ	LUI		ŇŠ		Date:			Client:		-
Drilling Me	thod:	Sampling Method			Logged By:	12/9	//2020	Drilled By:	ergy			
Ā	ir Rota	у	1 8	No	one		00 7	J. Lir	nn, P.G.	Talon L	PE	
Gravel Pack	c Type: )/20 Sar	hd	Gravel Pac	k Depth Inte	erval:		Seal Type:	one	Seal Depth Interval: None	Latitude: 32 0225	71	
Casing Typ	e:	Diameter:		Depth Inter	val:		Boring Tota	al Depth (ft. BC	GS):	Longitude:	/1	
PVC	~	2-inch		0-100 fe	eet bgs	Intornali	W-11 T-4-1	Double (A. DCS	10	-103.884	371	
PVC	σ.	0.010-i	nch	2-inch	100 -	105 ft	wen fotal	Depin (п. вОЗ	05	> 105	12/16/	2020
Depth Interval (ft)	Recovery (ft)	Plasticity	Moisture	Odor	Staining	PID (ppm)	NSCS	Sample ID	Lithology	y/Remarks	We Compl	ell etion
0 5 10 15	NM	L	D	Ν	N	NM	SP	NS	Pale orange to tan sa	poorly graded fine nd	-	
20	NM	Н	D	N	N	NM	CL	NS	Pale orange/tan/pale red clay, dry, with silt, fine sand, and minor caliche			
25 30 35 40 45	NM	L	D	N	N	NM	SP	NS	Pale orange to pale fine	e red poorly graded sand	- - -	
50 55 60	NM	L	D	N	N	NM	SP	NS	Golden yellow poorly graded fine sand with minor silt and clay		- -	
65 70 75	NM	L	D	N	N	NM	SP	NS	Pale orange to pale red poorly graded fine sand with minor silt/clay		-	
80 85 90	NM	М	D	Ν	N	NM	SC	NS	Buff to orange co medium sa	lor fine sand with nd and clay		
95	NM	Н	D	Ν	Ν	NM	CL	NS	Brown orange clay with	th silt and fine sand		
100 105	NM	Н	D	N	N	NM	SC	NS	Golden yellow and b fine sand - TD Boring 105'	uff colored clay with : 110' BGS; Sand 110' BGS	-	

HRI							BORING LOG/MONITORING WELL COMPLETION DIAGRAM						
							Boring/Wel	l Number:	NT 1	Location:			
		60	MPL		U E		MW-1			Client:			
	7M/	20	LUI	101	12		Date.	12/8	/2020	WPX End	ergy		
Drilling Method: Sampling Method:				Logged By:			Drilled By:	05					
A	ir Rota	y		Nc	one			J. Lir	nn, PG	Talon L	PE		
Gravel Pack	k Type:		Gravel Pac	k Depth Inte	rval:		Seal Type:	[	Seal Depth Interval:	Latitude:	( =		
Casing Typ	0/20 Sar	10 Diameter:	<u> </u>	3 B	ags		IN Boring Tots	al Depth (ft. BG	INONE	32.036 /	65		
PVC		2-inch		0-102 fe	et bgs		Doring Tou	11 11 11 11 11 11 11 11 11 11 11 11 11	)7	-103.895	993		ļ
Screen Typ	e:	Slot:		Diameter:	Depth J	Interval:	Well Total	Depth (ft. BGS)	):	Depth to Water (ft. BTOC):	DTW Da	te:	
PVC		0.010-ii	nch	2-inch	102-1	107 ft		10	)7	> 107	12/1	6/202	20
Depth Interval (ft)	Recovery (ft)	Plasticity	Moisture	Odor	Staining	PID (ppm)	USCS	Sample ID	Lithology	y/Remarks	V Com	Vell pleti	on
0													
5										-	-		
10										-	-		
10	NM	L	D	Ν	Ν	NM	SP	NS	Pale orange poorl	y graded fine sand	-		
15										-	-		
20										_	_		
25									-				
30	201	Ŧ		). T			a D		Same as above wit	h slight increase in			
35	NM	L	D	Ν	Ν	NM	SP	NS	coarse sand	l and gravel	-		
40											-		
40	NM	т	Л	N	N	NIM	SD	NC	Pale orange poorl	y graded fine sand	-		
43	11111	L	D	11	IN	11111	51	IND	with very	slight silt	-		
50			ļ!								-		
55	NM	L	D	N	Ν	NM	SP	NS	Pale orange poorl	y graded fine sand	_		
60	NM	L	D	Ν	Ν	NM	SW	NS	Pale orange well	graded fine sand			
65													
70										-	-		
75	NM	М	SL M	Ν	Ν	NM	SM	NS	Pale red orange cla	ayey silty fine sand	-		
80	1 1111		2211			1.1.1	2.11	110	with minor coars	e sand and gravel	-		
80										-	-		
85			'				<b> </b>				-		
90										-	-		
95	NM	т	SI M	N	N	NM	SP	NS	Pale orange poorly	y sorted fine sand -			
100	14141	L	SL WI	11	19	11111	51	115	TD 10	7' BGS			
105													

		HR	1				BORI	NG LOG/N	MONITORING WI	ELL COMPLETION	DIAGRAN	Л
		0.0	MDI		C E		Boring/Well	Number:	X7 1	Location:	17 4411	
		60	WPL		U E		Data	M١	N-1	RDX Federal Co	om 17-44H	
SULUIIUNS							Date.	12/8/	2020	WPX Energy		
Drilling Method: Lo							Logged By:			Drilled By:		
A	ir Rota	y		No	one		J. Linn, PG			Talon LPE		
Gravel Pack	k Type:	.d	Gravel Pac	k Depth Into	erval:		Seal Type: Seal Depth Interval:			Latitude:		
Casing Typ	0/20 Sai	IG Diameter		J E Denth Inter	val·		IN Boring Total	Depth (ft. BGS	).	32.049656		
PVC		2-inch		0-105 ft	t bgs		Doning Town	1	0	-103.904054		
Screen Typ	e:	Slot:	Diameter: Depth Interval:			Well Total D	epth (ft. BGS):	-	Depth to Water (ft. BTOC): DTW Date:			
PVC		0.010-i	nch	2-inch	105 -	110 ft		11	0	> 110	12/16/202	20
Depth Interval (ft)	Recovery (ft)	Plasticity	Moisture	Odor	Staining	PID (ppm)	NSCS	Sample ID	Litholog	y/Remarks	Well Completio	on
$ \begin{array}{r} 0\\ 5\\ 10\\ 15\\ 20\\ 25\\ 30\\ 35\\ 40\\ 45\\ 50\\ 55\\ \end{array} $	NM	L	D	N	N	NM	CE	NS	Buff to pale pin Pinky orange wel	k colored caliche		
60 65 70 75	NM	L	D	N	N	NM	SP	NS	Pinky pale brown o fine sand wi	range poorly graded the minor silt		
80 85 90	NM	L	D	N	N	NM	SW-SM SW-SC	NS	Pinky brown orang with silt	ge well-graded sand and clay .		
95 100 105	NM	L	D	N	N	NM	SP	NS	Pinky pale brown o fine sand with mine	range poorly graded or silt - TD: 110' bgs .	- -	

		HR	1				BORI	NG LOG/	MONITORING W	ELL COMPLETION	N DIAGRA	AM
					0 5		Boring/We	ll Number:		Location:		
		60	MPL	IAN	L E		D. (	M	W-1	Ross Draw U	nıt #55	
						Date:	12/9	/2020	WPX Energy			
Drilling Method: Lo							Logged By:			Drilled By:		
A	ir Rota	y		No	one		J. Linn, PG			Talon LPE		
Gravel Pacl	k Type:		Gravel Pac	k Depth Inte	erval:		Seal Type: Seal Depth Interval:			Latitude:		
Casing Typ	0/20 Sar	10 Diameter:		3 Depth Inter	ags		None None Registre Registre			32.016165		
PVC	·c.	2-inch		0-101'7	vai. 11		Doring 100	106	5'7"	-103 86346		
Screen Typ	e:	Slot:	Diameter: Depth Interval:				Well Total Depth (ft. BGS):			Depth to Water (ft. BTOC): DTW Date:		
PVC		0.010-i	nch	2-inch	101'7"	- 106'7"		106	5'7"	>106' 7" 12/16/202		)20
Depth Interval (ft)	Recovery (ft)	Plasticity	Moisture	Odor	Staining	PID (ppm)	NSCS	Sample ID	Lithology	y/Remarks	Well Complet	tion
0 5 10 15	NM	L	D	N	N	NM	SP	NS	Pale pink to buff co sand with	lored poorly graded minor silt	- -	
20 25 30	NM	L	D	N	N	NM	SW	NS	Pale tan orange we with minor mediu	ell graded fine sand m and coarse sand	-	
35 40 45 50 55 60	NM	L	D	N	N	NM	SP	NS	Pale orange brown sand with n	poorly graded fine ninor gravel	- - - -	
65 70 75 80 85	NM	L	D	N	N	NM	SP	NS	Grey poorly grad minor	ed fine sand with gravel		
90 95	NM	L	D	N	N	NM	SP	NS	Darker grey poorl with minor silt and	y graded fine sand minor medium sand	-	
100 106'7"	NM	М	D	Ν	N	NM	SC	NS	Dark grey fine sand and clay -	d with moderate silt TD 106'7"		

/		HR	1				BORI	NG LOG/	MONITORING W	ELL COMPLETION	N DIA(	GRAN	M
		0.0			C E		Boring/Wel	ll Number:	XX7 1	Location:	T : UCC	7	
		60					Date:	М	W-1	Ross Draw U	nit #5 /		
SULUIIUNS							12/9/2020			WPX Energy			
Drilling Method: Le							Logged By:			Drilled By:			
A	Air Rotai	гy	G 10	No	one		J. Linn, PG			Talon LPE			
Gravel Pac	k Type: 0/20 Sar	hd	Gravel Pac	k Depth Inte	erval:		Seal Type: Seal Depth Interval:			Latitude: 32 01032			
Casing Typ	e:	Diameter:		Depth Inter	val:		Boring Total Depth (ft. BGS):			S2.01052			
PVC		2-inch		0-105 fe	eet bgs		110			-103.87246			
Screen Typ	e:	Slot:		Diameter:	Depth	Interval:	Well Total	Depth (ft. BGS	):	Depth to Water (ft. BTOC): DTW Date:			
PVC		0.010-ii	nch	2-inch	105-	110 ft		11	10	>110	12/1	6/2020	0
Depth Interval (ft)	Recovery (ft)	Plasticity	Moisture	Odor	Staining	PID (ppm)	USCS	Sample ID	Litholog	y/Remarks	V Com	Vell pletioi	'n
$ \begin{array}{r} 0 \\ 5 \\ 10 \\ 15 \\ 20 \\ 25 \\ 30 \\ 35 \\ \end{array} $	NM	L/M	D	N	N	NM	SM	NS	Tan/pale orange/j graded f	- pale brown poorly ine sand			
40 45	NM	М	D	N	N	NM	SW	NS	Hard, dry pale pink sand wit	orange well graded th gravel	-		
50 55	NM	М	D	Ν	Ν	NM	SM	NS	Pale orange red t	an silty fine sand	-		
60 65	NM	L	D	Ν	Ν	NM	SW	NS	Dark brown greyis	h well graded sand	-		
70 75 80 85 90 95	NM	L/M	D to SL M	N	N	NM	SW	NS	Grey well ٤	graded sand	- - - -		
100 105	NM	L/M	D	Ν	Ν	NM	SM	NS	Tan/pale orange/j graded fine san	pale brown poorly d - TD 110' bgs	-		

District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3470 Fax: (505) 476-3462

### **State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. Santa Fe, NM 87505

CONDITIONS

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	61866
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	Closure approved 09/14/2022. No further action required.	3/21/2023

Action 61866